

METHOD OF PRODUCING AN ENVELOPING WORM

ABSTRACT OF THE DISCLOSURE

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Enveloping worm threads with less than one revolution have on one side concave surface and on another side convex surface. This makes generation of concave and convex enveloping worm surfaces simultaneously and makes modification of surfaces by individual machining of each surface. Proposed method uses cutting edges that have rotation radius according with radius of curvature of machining surface. Another variation simultaneously cuts several threads, where enveloping worm blank has rotation around its own axis of rotation and relative motion to helical cutter around tooling axis. This reduces production cost and makes manufacturing easily.

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